

Appl. No. 09/605,498

Response to Office Action of June 24, 2005

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Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (currently amended): A communicating method in a network in which a feed and receivers are connected via a unidirectional line and the feed and the receivers are respectively connected to a bidirectional line via routers, comprising the steps of:

allowing a first router to transmit a first packet including path control information to a first receiver;

allowing said first receiver to transmit a second packet obtained by encapsulating said first packet to a first interface of said feed via said first router, said bidirectional line, and a second router;

allowing said feed to extract said first packet by decapsulating said second packet, transmit said first packet to said second router from a second interface, and transmit said first packet to a second ~~third~~ receiver from a third interface via said unidirectional line; and

allowing said second ~~third~~ receiver to transmit said first packet to a third router;

wherein, in said first packet, a MAC header is added to the head, an IP header is subsequently added, and the path control information is located after said IP header.

Claim 2 (original): A method according to claim 1, further comprising the step of performing communication between said feed and said receiver via a communication path established according to said path information.

Claim 3 (canceled)

Claim 4 (original): A method according to claim 1, wherein said unidirectional line is a satellite line.

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Claim 5 (currently amended): A transmitting apparatus having first, second and third interfaces, wherein the transmitting apparatus:

is connected to a first interface of a router via said first interface and a bidirectional line;

is connected to a second interface of the router via said second interface and said bidirectional line;

is connected to a receiver via said third interface and a unidirectional line;

received a capsulated packet including a MAC header, an IP header and path control information via said bidirectional line, said router, and said first interface from said receiver;

decapsulates said capsulated packet, transmits said path control information extracted due to the decapsulation to said router via said second interface and said bidirectional line, and transmits said path control information to the receiver via said third interface and said unidirectional line.

Claims 6-7 (canceled)

Claim 8 (currently amended): An apparatus according to claim 5 ~~or~~ 6, wherein said unidirectional line is a satellite line.